

**What is claimed is:**

1. An image compressing apparatus comprising:

a specification portion which specifies a restart interval for inserting a restart marker which indicates an expansion starting point of compressed

5 image data at occurrence of a data error; and

an image compression processing portion which compresses image data after inserting said restart marker in a head of said image data corresponding to one scanning line based on said restart interval

10 specified in said specification portion.

2. The image compressing apparatus according to claim 1, wherein said specification portion, comprises:

a setting register group which stores the number  
5 of horizontal pixels of said image data and an interval of said scanning line in which said restart marker is inserted; and

a restart interval calculation portion which calculates said restart interval based on said  
10 scanning line interval and the number of said horizontal pixels which are stored in said setting register group.

3. The image compressing apparatus according to claim 2, wherein said setting register group,

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comprises:

a restart line interval setting register which  
5 stores said scanning line interval for inserting said  
restart marker; and

a horizontal level setting register which stores  
the number of the horizontal pixels of said image data,  
and

10 said restart interval calculation portion  
calculates said restart interval based on the number  
of the horizontal pixels stored in horizontal level  
setting register and said scanning line interval  
stored in said restart line interval setting register.

4. The image compressing apparatus according to  
claim 3, wherein said image compression processing  
portion, comprises:

a discrete cosine transformation portion which  
5 executes said discrete cosine transformation to said  
image data;

a quantization portion which quantizing data  
from said discrete cosine transformation portion;

a restart marker insertion portion which inserts  
10 said restart marker in data outputted from said  
quantization portion; and

an entropy compression portion which executes  
entropy compression to data in which said restart  
marker is inserted by said restart marker insertion

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15 portion.

5. The image compressing apparatus according to claim 4, further comprising:

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5 of said restart marker based on a value which specifies a restart interval from said restart interval calculation portion; and

10 a marker addition portion which adds the restart interval marker prepared by said marker preparation portion to compressed image data prepared by said image compression processing portion.

6. An image compressing method comprising:

5 specifying a restart interval for inserting a restart marker which indicates an expansion starting point of compressed image data at occurrence of a data error; and

compressing image data after inserting said restart marker in a head of said image data corresponding to one scanning line based on said specified restart interval.

7. The image compressing method according to claim 6, wherein said specifying step, includes:

storing the number of horizontal pixels of said

image data and an interval of said scanning line in  
5 which said restart marker is inserted; and  
calculating said restart interval based on said  
scanning line interval and the number of said  
horizontal pixels.

8. The image compressing method according to claim  
7, wherein said storing step, includes:

storing said scanning line interval for  
inserting said restart marker; and  
5 storing the number of the horizontal pixels of  
said image data, and  
said calculating step calculates said restart  
interval based on the number of the horizontal pixels  
and said scanning line interval.

9. The image compressing method according to claim  
8, wherein said compressing step, comprises:

executing a discrete cosine transformation to  
said image data;  
5 quantizing data to which said discrete cosine  
transformation is executed;  
inserting said restart marker in quantized data;  
and  
executing entropy compression to data in which  
10 said restart marker is inserted.

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10. The image compressing method according to claim  
9, further comprising:

preparing a restart interval marker showing a  
insertion position of said restart marker based on a  
5 value which specifies a restart interval; and

adding the prepared restart interval marker to  
compressed image data.

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